

U.S.S.N. 09/803,039

In the Claims:

Please amend the claims as set forth in the following Listing of the Claims.

LISTING OF THE CLAIMS

- 1.(Currently amended) An aqueous fire barrier composition comprising:
latex comprising a polymer;
from 1 % by weight to about 10 % by weight a polyol having 2, 3
or 4 hydroxy groups and a molecular weight of from ~~about 75~~ 100 to about
1200, said polyol being selected from the group consisting of polyethylene
glycol, polypropylene glycol, and combinations thereof; and
an intumescent agent.
- 2.(Canceled)
- 3.(Canceled)
4. (Original) The composition of claim 1, wherein said composition comprises
from about 1 % by weight to about 5 % by weight polyol.
5. (Original) The composition of claim 1, wherein said composition comprises
from about 1 % by weight to about 3 % by weight polyol.
6. (Original) The composition of claim 1, wherein said polymer is selected from
the group consisting of acrylate, methacrylate, vinyl acetate and combinations thereof.
7. (Original) The composition of claim 1, wherein said polymer comprises
acrylate-vinylacetate-ethylene terpolymer.

U.S.S.N. 09/803,039

8. (Original) The composition of claim 1, wherein said polymer is selected from the group consisting of rubber, styrene butadiene copolymer, butadiene acrylonitrile copolymer, polyisoprene, polybutadiene and combinations thereof.

9. (Original) The composition of claim 1, wherein said composition has a caulk rate of at least about 100 g/min at room temperature.

10. (Original) The composition of claim 1, wherein said composition has a caulk rate of at least about 150 g/min at room temperature.

11. (Original) The composition of claim 1, wherein said composition after aging for two weeks at room temperature has a caulk rate of at least about 200 g/min.

12. (Original) The composition of claim 1, wherein said composition after aging for two weeks at 50°C has a caulk rate of at least about 20 g/min.

13. (Original) The composition of claim 1, wherein said composition exhibits a slump resistance of no greater than 8 mm.

14. (Original) The composition of claim 1, wherein said composition passes the One Hour Fire Test.

15. (Original) The composition of claim 1, wherein said composition passes the Two Hour Fire Test.

16. (Original) The composition of claim 1, wherein said composition passes the Three Hour Fire Test.

17. (Original) The composition of claim 1, wherein said composition passes the Hose Stream Test after a one hour burn.

U.S.S.N. 09/803,039

18. (Original) The composition of claim 1, wherein said composition passes the Hose Stream Test after a two hour burn.

19. (Original) The composition of claim 1, wherein said composition passes the Hose Stream Test after a three hour burn.

20. (Original) The composition of claim 1, further comprising a fire retardant agent.

21. (Original) The composition of claim 20, wherein said fire retardant agent is selected from the group consisting of phosphorous, glass, boron, metal oxide, metal hydrate, and combinations thereof.

22. (Original) The composition of claim 20, wherein said fire retardant agent is selected from the group consisting of aluminum oxide trihydrate, zinc borate and mixtures thereof.

23. (Original) The composition of claim 1, wherein said polyol has a molecular weight of from about 100 to about 500.

24. (Currently amended) The composition of claim 1, wherein said intumescent agent comprises a composition comprising

granular alkali metal silicate represented by the formula

$M_2O:XSiO_2$ in which M is an alkali metal,

at least one oxyboron compound selected from the group consisting of boric acid and borate salts of Group I and ~~group~~ Group II elements, and

water bound to said alkali metal silicate,

the weight ratio X ranging from about 1.5 to about 4,

the molar ratio of boron to M being from about 0.2 to about 0.9,

U.S.S.N. 09/803,039

and the water being from about 5 % to about 15 % of the total granule weight.

25. (Original) The composition of claim 1 comprising:

from about 25 % by weight to about 75 % by weight latex;
from about 1 % by weight to about 10 % by weight polyol; and
from about 2 % by weight to about 40 % by weight intumescent agent.

26. (Currently amended) An aqueous fire barrier composition comprising:

latex comprising a polymer;
from 1 % by weight to about 10 % by weight a polyol having 2, 3 or 4 hydroxy groups, said polyol being selected from the group consisting of ethylene glycol, polypropylene glycol, glycerol, and combinations thereof; and

an intumescent agent comprising a composition comprising
granular alkali metal silicate represented by the formula $M_2O:XSiO_2$ in which M is an alkali metal,
at least one oxyboron compound selected from the group consisting of boric acid and borate salts of Group I and ~~group~~ Group II elements, and
water bound to said alkali metal silicate,
the weight ratio X ranging from about 1.5 to about 4,
the molar ratio of boron to M being from about 0.2 to about 0.9,
and the water being about 5 % to about 15 % of the total granule weight.

27. (Canceled)

28. (Canceled)

U.S.S.N. 09/803,039

29. (Original) The composition of claim 26, wherein said composition comprises from about 1 % by weight to about 5 % by weight polyol.

30. (Original) The composition of claim 26, wherein said composition comprises from about 1 % by weight to about 3 % by weight polyol.

31. (Original) The composition of claim 26, wherein said polymer comprises acrylate-vinylacetate-ethylene terpolymer.

32. (Original) The composition of claim 26, further comprising a fire retardant agent.

33. (Original) The composition of claim 32, wherein said fire retardant compound is selected from the group consisting of phosphorous, glass, boron, metal oxide, metal hydrate, and combinations thereof.

34. (Original) The composition of claim 32, wherein said fire retardant agent is endothermic.

35. (Original) The composition of claim 32, wherein said fire retardant agent is selected from the group consisting of aluminum oxide trihydrate, zinc borate and mixtures thereof.

36. (Original) The composition of claim 26, wherein said composition exhibits a caulk rate of at least about 100 g/min at room temperature.

37. (Original) The composition of claim 26, wherein said composition exhibits a caulk rate of at least about 150 g/min at room temperature.

U.S.S.N. 09/803,039

38. (Original) The composition of claim 26, wherein said composition after aging for two weeks at room temperature exhibits a caulk rate of at least about 200 g/min.

39. (Original) The composition of claim 26, wherein said composition after aging for two weeks at 50°C has a caulk rate of at least about 20 g/min.

40. (Original) The composition of claim 26, wherein said composition exhibits a slump resistance of no greater than 8 mm.

41. (Original) The composition of claim 26, wherein said composition passes the One Hour Fire Test.

42. (Original) The composition of claim 26, wherein said composition passes the Two Hour Fire Test.

43. (Original) The composition of claim 26, wherein said composition passes the Three Hour Fire Test.

44. (Original) The composition of claim 26, wherein said composition passes the Hose Stream Test after a one hour burn.

45. (Original) The composition of claim 26, wherein said composition passes the Hose Stream Test after a two hour burn.

46. (Original) The composition of claim 26, wherein said composition passes the Hose Stream Test after a three hour burn.

47. (Original) The composition of claim 26, wherein said polymer is selected from the group consisting of acrylate, methacrylate, vinyl acetate and combinations thereof.

U.S.S.N. 09/803,039

48. (Original) The composition of claim 26, wherein said polymer comprises acrylate-vinylacetate-ethylene terpolymer.

49. (Original) The composition of claim 26, wherein said polymer is selected from the group consisting of rubber, styrene butadiene copolymer, butadiene acrylonitrile copolymer, polyisoprene, polybutadiene and combinations thereof.

50. (Canceled)

51. (Currently amended) An aqueous fire barrier composition comprising:

- a) 40 % by weight to 45 % by weight latex comprising acrylate-vinylacetate-ethylene terpolymer;
- b) 1 % by weight to 3 % by weight polyethylene glycol having a molecular weight from about 100 to about 500;
- c) 15 % by weight to 25 % by weight intumescent agent comprising a composition comprising

granular alkali metal silicate represented by the formula

$M_2O:XSiO_2$ in which M is an alkali metal,

at least one oxyboron compound selected from the group consisting of boric acid and borate salts of Group I and ~~group~~ Group II elements, and

water bound to said alkali metal silicate,

the weight ratio X ranging from about 1.5 to about 4,

the molar ratio of boron to M being from about 0.2 to about 0.9,

and the water being about 5% to about 15% of the total granule weight; and

- d) 18 % by weight to 27 % by weight zinc borate.